		S Dept. of Commerce Pat. & Trademark Office	Attorney's Docket No. 22151			
]	DESIGNATED/ELECTE	TO THE UNITED STATES ED OFFICE (DO/EO/US) NG UNDER 35 USC 371	US. Application No. (if known) 10/070943			
INTERNATIONAL APP. NO. PCT/EP00/08578		INTERNATIONAL FILING DATE 2 September 2000	PRIORITY DATE CLAIMED 10 September 1999			
TITLE OF INVENTION MOTOR-VEHICLE KEY FOR REMOTE-CONTROLLED MOTOR-VEHICLE LOCKING SYSTEM						
APPLICANT(S) FOR DO/EO/US Damien LABONDE						
Applicant herewith submits to the United States Designated/Elected Office (DO/EU/US) the following . 1.						
1tems 11. 11. □ 12. □ 13. ■ 14. □ 15. □ 16. ■	An Information Disclosure S An Assignment for recordin included. A FIRST preliminary amend	ENT preliminary amendment.				

US Application no ((if known)	International Applic		G13 Regid	et No.
10/1	1/11/43	PCT/I	EP00/08578		22151
17. The following fees are submitted: Basic National Fee (37 CFR 1.492(a)(1)-(5): Search report has been prepared by the EPO or JP				CALCULATION	S PTO USE ONLY
	Int'l prel. exam. fee paid to USPTO (37 CFR 1.482)				
No int'l prel. exam. fee paid to USPTO (37 CFR 1.482) but int'l search fee paid to USPTO (37 CFR 1.445(a)(2)					
Neither int'l prel. exam fee (37 CFR 1.482) nor int'l search fee (37 CFR 1.455(a)(2)) paid to USPTO					
Intl. prel. exam. fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Art. 33(2-4) \$100.00				\$1,040	
ENTE	ER APPROPRIATE BASIC	C FEE AMOUNT			
Surcharge of \$130.00 months from the earl	0 for furnishing oath or de liest claimed priority date (claration later than 537 CFR 1.492(e)).	20 🗆 30		
CLAIMS	NO. FILED	NO. EXTRA	RATE		
Total claims	7	0	\$18	\$0	
Ind. claims	0	0	\$84	\$0	
MULTIPLE DEP. C	LAIM(S) (if applicable) (se	ee prel. amt.)	280		
	ž	TOTAL OF ABOV	E CALCULATIONS	\$1,040	
Reduction of ½ for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (37 CFR 1.2, 1.27, 1.28)			\$0		
			SUBTOTAL	\$1,040	
Processing fee of \$13 months from the earli	30.00 for furnishing the Eniest claimed priority date (glish translation later 37 CFR 1.492(f)).	than 🗆 20 🗆 30		
		TOTA	AL NATIONAL FEE	\$1,040	
Fee for recording the accompanied by an a	enclosed assignment (37 oppropriate PTO-1595 cove	CFR 1.21(h)). The Ass r sheet (37 CFR 3.28,	signment may be 3.39)		
		TOTAI	L FEES ENCLOSED		
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 b. ☐ Please charge c. ■ Please charge d. ■ The commission account 18-202 	e amount of \$ to cover the my deposit account 18-20; the amount due to the crec- oner is authorized to charg 5. A copy of this sheet is the amount of \$ to cover to	25 \$ to cover the above lit card identified in the any additional fees enclosed	we fees. A copy of this are attached PTO-2038. which may be required		ent to deposit
NOTE: Where an ap (37 CFR 1.13	opropriate time limit und (7(a) or (b)) must be filed	er 37 CFR 1.494 or : and granted to rest	1.495 has not been me ore the application to	t, a petition to revive pending status.	
Send all corresponden		-	••		
The Firm of L	Karl F. Ross P.C.				
	e Ave. Box 900			Herbert Dui	ono, Reg. No. 19,752
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Riverdale (Bronx), NY 10471



MAR 8 2002

EV018431482

Inventor

Damien LABONDE

Patent App.

Not known (US Nat'l phase of PCT/EP00/08578)

Filed

Concurrently herewith

For

MOTOR-VEHICLE KEY FOR REMOTE-CONTROLLED MOTOR-VEHICLE LOCKING SYSTEM

Hon. Commissioner of Patents Washington, DC 20231

RECORD OF TRANSMITTAL -- PCT APPLICATION

■ PCT Transmittal

PCT Application

Translation

■ Sheets of Drawing (2)

□ PCT Declaration

■ PCT Documents

International Search Report

■ Preliminary Amendment

Assignment

Reference(s) with PTO-1449

■ PTO-2038 for Official Fees

Basic Fee (Large Entity) \$1040.00

Ind. claims in excess of 3 \$00.00

Claim in excess of 20 \$00.00

Total

\$1040.00

Please charge any fees not covered by an enclosed PTO-2038 to account 18-2025 of the undersigned.

8 March 2002

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Respectfully submitted,
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IN THE U.S. PATENT AND TRADEMARK OFFICE

Inventor

Damien LABONDE

Patent App.

Not known (US Nat'l phase of PCT/EP00/08578)

Filed

Concurrently herewith

For

MOTOR-VEHICLE KEY FOR REMOTE-CONTROLLED MOTOR-

VEHICLE LOCKING SYSTEM

Art Unit

Not known

Hon. Commissioner of Patents

Washington, DC 20231

PRELIMINARY AMENDMENT

Prior to examination of the above-identified application, please amend as follows:

In the claims:

Cancel all the claims in the case without prejudice.

Add the following new claims:

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- 1 8. In combination:
- 2 a housing comprised of a cover, a first base part fixed
- to the cover, and a second base part separable from the first base 3
- part and cover, the housing forming an ignition-key stump adapted 4
- to fit in an ignition of a motor vehicle;
 - a keypad on the cover;
 - remote-control circuitry inside the housing connected to the keypad and capable of operating a motor-vehicle locking system and a motor-vehicle ignition system;
 - an emergency key having a bitted blade fixed to the second base part, the first base part being formed with a seat in which the blade can fit with the second base part fitted closely against the cover, the second base part fitting snugly with the cover and first base part, and the blade wholly contained in the housing.
 - The combination defined in claim 8 wherein the housing is provided with means for releasably retaining the blade in the seat.
- 1 The combination defined in claim 8 wherein the seat is open longitudinally and the blade is longitudinally slidable
- into the seat. 3
- 1 The combination defined in claim 10 wherein the base
- 2 parts meet at a joint extending transversely of the blade.

- 1 12. The combination defined in claim 8, further compris-
- 2 ing
- means permanently bonding the cover to the first base
- 4 part.
 - 13. The combination defined in claim 8 wherein the cover forms a battery holder, the combination further comprising:
 - a battery engaged between the key blade and the seat and held in the battery holder by the key blade.
 - 14. The combination defined in claim 13 wherein only when the key blade is pulled out of the seat and the second base part is separated from the housing are the battery and the battery holder exposed.

Remarks:

This amendment is submitted in an earnest effort to advance this case to issue without delay.

The translated claims have been replaced with a set of US-style claims to ease prosecution.

> Respectfully submitted, The Firm of Karl F. Ross P.C.

> > Andrew Wilford, 26,597 Attorney for Applicant

6 March 2002

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22151 PC

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)	ss:
County of the Bronx)	

TRANSLATOR'S AFFIDAVIT

I, Andrew M. Wilford, a citizen of the United States of America, residing in Dobbs Ferry, New York, depose and state that:

I am familiar with the English and German languages;

I have read a copy of the German-language document attached hereto, namely PCT application PCT/EP00/08578 published 22 March 2001 as WO 01/20110; and

The hereto-attached English-language text is an accurate translation of the above-identified German-language document.

Andrew M. Wilford

Sworn to and subscribed before me 6 March 2002

hiedman Notary Public

NOTICE TO LARGE NOTICE TO LARGE NO. 47 TO LARG

JC13 Repris POT/P10 0 8 MAR 2002

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22151 PCT/EP00/08578

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Transl. of WO 01/20110

MOTOR-VEHICLE KEY FOR REMOTE-CONTROLLED MOTOR-VEHICLE LOCKING SYSTEM

Description

The invention relates to a motor-vehicle key for a remote-controlled motor-vehicle locking system. Such a motor-vehicle key is also called an electronic key. A remote-controlled locking system can be a locking system equipped with a mechanically actuatable remote controller as well as a locking system provided with a coil in a so-called "check card" or transponder, for example where the locking action is set in operation by actuation of a door handle.

Since the introduction of remotely operable motor-vehicle locking systems the use of the standard mechanical key has been limited as a rule to the occasional circumstances when the remotecontrol system, for example, does not work because of insufficient power or other reasons. Only under these conditions must one use a mechanical key that actually serves as an emergency key and generally is constructed of materials, e.g. plastic, that are not suitable for the long service life of a standard motor-vehicle key. In addition it has been noted that after years of using a mechanically actuated locking system the user has a tendency to want to do the unlocking by means of a key held in the hand.

In particular a key holder with a swing-out emergency key is known. the emergency key is held in a side pocket of the key

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holder and is thus relatively easy to access and even see from outside (see German 3,902,537).

Furthermore an electronic remote-control key is known where the key housing has the external shape of a car and the emergency key has a blade inserted into the front or rear of the car-shaped housing. In this case the emergency key in the key housing forms a push rod. The push rod in turn forms the key head or the key grip and projects from the car-shaped housing in order to be directly accessible in case of need and so that it can be pulled out (see German 297 22 484). As a result it is not out of the question that the user out of habit pulls out the thus mounted emergency key to open the car. In addition the projecting key can be a hindrance.

Finally an electronic key is known for use with locking systems in motor vehicles that has a housing on which an additional key blade is provided as emergency key for a mechanical lock. The emergency key is formed as a separate key from the key. The housing has a socket in which the blade of the emergency key fits. With this known embodiment the housing has a grip part for the user and a jack part formed on it while the emergency key has like a standard key a blade and a grip part which projects from the housing. Finally the emergency key does not fit fully into the actual key housing. This is unsatisfactory (see German 4,444,913).

It is an object of the invention to provide a motor-vehicle key for remote-control motor-vehicle locking systems where

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the emergency key is readily accessible in case of emergency but where it is used just out of habit is impeded. In addition the emergency key intended only for emergency use is to be protected against damage.

In order to attain this object the invention is a motor-vehicle key for a remote-control motor-vehicle latching system having a key housing holding a remote-control circuit and a mechanical emergency key and wherein

the key housing has a cover with a keypad and a split base formed by two base parts

the emergency key has a key head connected with the base part forming a key grip, and

the other base part has a seat for the key blade

The features of the invention have the effect that the
emergency key is wholly contained in the key housing and thus is
integrated in the key housing formed as a transmitter housing. In
this manner the emergency key is not visible or noticeable from
outside so that the vehicle or key user is not going to be inclined
to use the emergency key to open the vehicle and in fact such usage
is made difficult. Thus the emergency key, if it is for example
made of plastic, is not damaged by unnecessary use. In fact the
key housing gives no clue to the presence of an emergency key
inside the housing which has a standard external design. Mounting
the emergency key in the key housing allows the housing to be made

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as small as possible in that the base part also forms the key head while the other base part forms a seat for the key blade.

Further features are describe in the following. key blade is releasably retained in the base part. According to a further embodiment of the invention it is also possible for the key blade to be longitudinally slidable in the key-grip forming base part and when fully inserted is operational and releasably retained in the base part. Such a slide interfit of the emergency key allows a further reduction of the length of the key housing and minimizing of its outside dimensions. The invention further proposes that the base be transversely split and the two base parts be snap-fitted together. Preferably the cover and the base are connected together by ultrasonic welding or adhesive bonding. Thus the base part forming the key grip, when the battery needs to be changed, can simply be pulled out of the base part 3 holding the key blade. In addition the cover and the base have an ignition-key stump for starting the car so that when the stump of the key is turned in the ignition the transponder in the housing is read (travel lock). Finally according to the invention the emergency key is mounted underneath the remote-control circuit in the base and the key head presses a battery into electrical contact against a circuit plate of the remote-control circuit when the emergency key is fitted into the key housing. The remote-control circuit has on the circuit plate the standard transmitter and receiver and a controller and integrated transponder for a drive lock, or

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alternatively is provided with a coil or a transponder for the locking system.

In the following, the invention will be more closely described with reference to a drawing showing a single embodiment. Therein:

FIG. 1 is a motor-vehicle key according to the invention in a schematic view;

FIG. 2 is a section along line A--A of FIG. 1; and FIG. 3 is an exploded view of the structure of FIG. 1.

The Figures show a motor-vehicle key for a remote-control motor-vehicle locking system. This motor-vehicle key 1 has a key or transmitter housing 2, 3 in which a schematically illustrated remote-control circuit 4 and a mechanical emergency key 5 are held. The key housing has a cover 2 with a keypad 6 and a split base 3 formed by two base parts 3a and 3b. The emergency key 5 has a key end 7 seated in the base part 3a forming a key head while the other base part 3b has a seat 8 for a blade 9 of the key. The key blade 9 is retained in the base part 3b releasably by a catch. The base 3 is subdivided transversely. The two base parts 3a and 3b thus formed are snapped together according to this embodiment so the emergency key 5 can be taken out. The cover part 2 and the base holding the key blade 9 are bonded together by ultrasonic welding or an adhesive. The cover 2 and the base 3 and thus the key housing have also an ignition key stump 10.

The emergency key 5 is mounted underneath the remotecontrol circuitry 4 in the base 3. The key head 7 holds a battery 11 in contact against an circuit plate 12 of the remote-control circuit 4.

The key housing and thus the cover 2 and base 3 are made according to this embodiment of plastic as is the emergency key 5 whose blade 9 can however be made of metal.

Patent Claims

1. A motor-vehicle key (1) for a remote-control motor-vehicle locking system having a key housing (2 and 3) holding a remote-control circuit (4) and a mechanical emergency key (5) and wherein

the key housing has a cover (2) with a keypad (6) and a split base (3) formed by two base parts (3a and 3b)

the emergency key (5) has a key head (7) connected with
the base part (3a) forming a key grip, and
the other base part (3b) has a seat (8) for the key blade
(9).

- 2. The motor-vehicle key according to claim 1, characterized in that the key blade (9) is releasably retained in the base part (3a).
- 3. The motor-vehicle key according to claim 1, characterized in that the key blade (9) is longitudinally slidable in the key-grip forming base part (3a) and when fully inserted is operational and releasably retained in the base part.
- 4. The motor-vehicle key according to one of claims 1 to 3, characterized in that the base (3) is transversely split and the two base parts (3a and 3b) are snap-fitted together.

- 5. The motor-vehicle key according to one of claim 1 to 4, characterized in that the cover (2) and the base (3) are connected together by ultrasonic welding or adhesive bonding.
- 6. The motor-vehicle key according to one of claims 1 to 4, characterized in that the cover (2) and the base (3) have an ignition-key stump (10).
 - 7. The motor-vehicle key according to one of claims 1 to 5, characterized in that the emergency key (5) is mounted underneath the remote-control circuit (4) in the base (3) and the key head (7) presses a battery (11) into electrical contact against a circuit plate (12) of the remote-control circuit (4).

Amended Claims

(filed with the International Office on 2 March 2001 original claims 1-7 replace by new claims 1-6 (2 pages)

- A motor-vehicle key (1) for a remote-control motorvehicle locking system having a key housing (2 and 3) holding a
 remote-control circuit (4) and a mechanical emergency key (5) and
 wherein
 - the key housing has a cover (2) with a keypad (6) and a split base (3) formed by two base parts (3a and 3b)
 - the cover (2) and the base (3) are provided with an ignition-key stump (10),
 - the emergency key (5) has a key head (7) connected with
 the base part (3a) forming a key grip, and
 the other base part (3b) has a seat (8) for the key blade
 (9).
 - 2. The motor-vehicle key according to claim 1, characterized in that the key blade (9) is releasably retained in the base part (3a).
- 3. The motor-vehicle key according to claim 1, characterized in that the key blade (9) is longitudinally slidable in the key-grip forming base part (3a) and when fully inserted is operational and releasably retained in the base part.

- 4. The motor-vehicle key according to one of claims 1 to 3, characterized in that the base (3) is transversely split and the two base parts (3a and 3b) are snap-fitted together.
- 5. The motor-vehicle key according to one of claim 1 to 4, characterized in that the cover (2) and the base (3) are connected together by ultrasonic welding or adhesive bonding.
 - 6. The motor-vehicle key according to one of claims 1 to 5, characterized in that the emergency key (5) is mounted underneath the remote-control circuit (4) in the base (3) and the key head (7) presses a battery (11) into electrical contact against a circuit plate (12) of the remote-control circuit (4).



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Deutsch

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Deutsch

DE

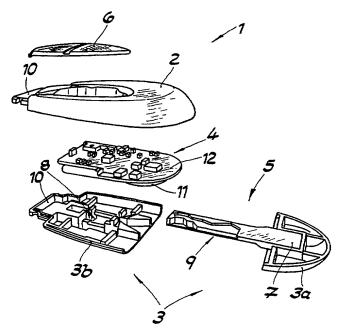
(30) Angaben zur Priorität: 199 43 498.0 10. September 1999 (10.09.1999)

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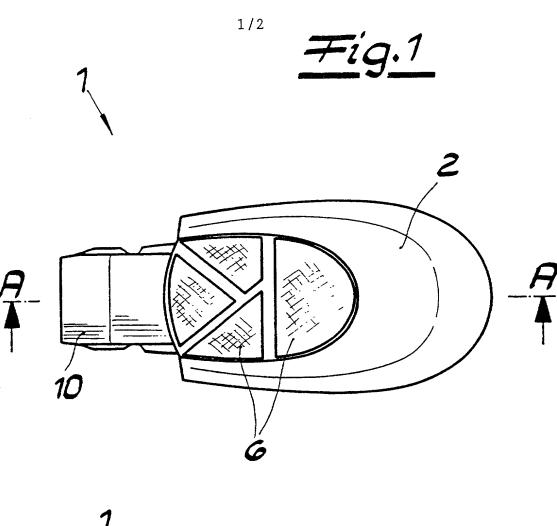
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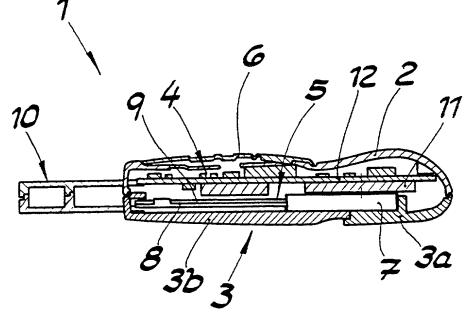
- (54) Title: MOTOR-VEHICLE KEY FOR REMOTE-CONTROLLED MOTOR-VEHICLE LOCKING SYSTEM
- (54) Bezeichnung: FAHRZEUGSCHLÜSSEL FÜR FERNBEDIENBARE FAHRZEUGSCHLIESSSYSTEME



(57) Abstract: The invention relates to a motor-vehicle key, comprising a key housing (2, 3), in which an emergency key (5) is stored. The key housing (2, 3) has a cover shell (2) and a divided base shell (3) which is configured as two base-shell sections (3a, 3b). The emergency key (5) is fixed to one of the base-shell sections (3a) by its key head (7), whilst the other base-shell section (3b) has a shaft recess (8) for the key shaft (9).



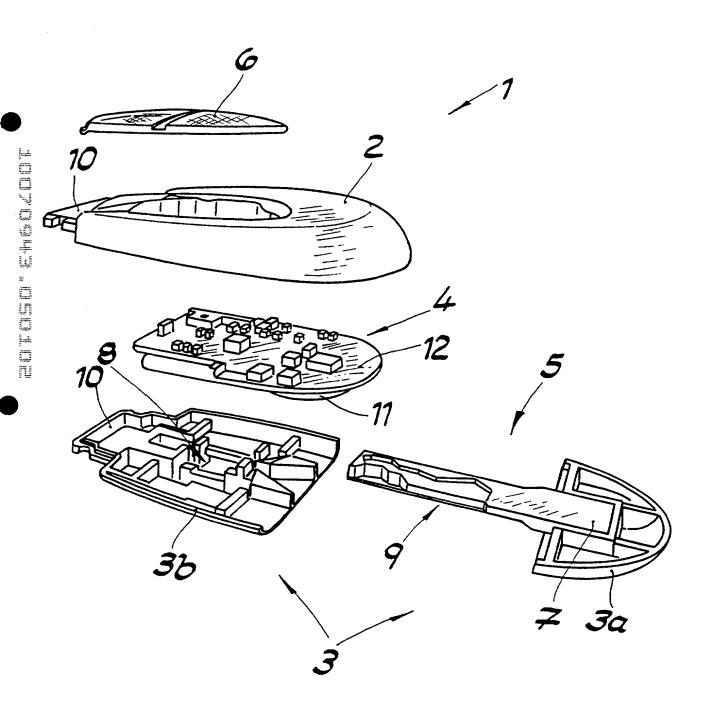




PCT/EP00/08578

2/2





DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post-office address, and citizenship are as stated below next to my name,

I believe that I am the original, first, and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

MOTOR-VEHICLE KEY FOR REMOTE-CONTROLLED MOTOR-VEHICLE LOCKING SYSTEM

	the specification of which was filed on 2 September 2000 as PCT application PCT/EP00/08598.							
	Thereby state that I have reviewed and understand the contents of the above-identified specification							
	including the claims.							
	I acknowledge the duty to d	lisclose information	on which is material to pater	ntability as defined in 37 CFR 1.56.				
	I hereby claim foreign priority benefits under 35 USC 119 of any foreign applications for patent or							
	inventor's certificate listed below and have also identified below any foreign applications for patent or							
	inventor's certificate having a filing date before that of the application on which priority is claimed:							
	Country	Number Price	or Foreign Applications					
	•	1943498.0	Filing Date	Priority claimed				
	13	U.0545450.U	10 September 19	Yes				
	I hereby claim the benefit ur	nder 35 USC 120	of the United States Applie	ation(s) listed below and, insofar				
ŀ	as the subject matter of eac	h of the claims of	f this application is not discla	osed in the prior United States				
1	Application(s) in the manner	provided by the	first paragraph of 35 USC 1	12, I acknowledge the duty to				
2	disclose material information	as defined in 37	CFR 1.56 which occurred by	petween the filing date of the prior				
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	them individually.	z; Jonathan Myer	s, Reg. 26,963; Andrew Wil	ford, Reg. 26,597 and each of				
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	both under 18 USC 1001 or	ise statements an	d the like so made are punis	hable by fine or imprisonment, or				
	both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
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	Full name of sole inventor:		Damien LABONDE					
		_ ^ •	THE CONTRACTOR OF THE PROPERTY					

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Inventor's signature Dame Lelande	Date: Maril 12, Loo2	_
sidence: Essen, Germany	Citizen of Franc	e

DEX

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